

Title (en)  
FLAME RETARDANT POLY(ARYLENE ETHER)-POLYSILOXANE BLOCK COPOLYMER COMPOSITION AND ARTICLE

Title (de)  
FEUERFESTE POLY(ARYLENETHER-)POLYSILOXAN- BLOCKCOPOLYMERZUSAMMENSETZUNG UND ARTIKEL DARAUS

Title (fr)  
COMPOSITION DE COPOLYMÈRE À BLOCS DE POLY(OXYDE D'ARYLÈNE)-POLYSILOXANE IGNIFUGE ET ARTICLE CORRESPONDANT

Publication  
**EP 2736976 A2 20140604 (EN)**

Application  
**EP 12818023 A 20120629**

Priority

- US 201113189651 A 20110725
- US 2012044897 W 20120629

Abstract (en)  
[origin: US2013030096A1] A poly(arylene ether) composition includes a styrenic polymer, a flame retardant comprising an organophosphate ester, and a poly(arylene ether)-polysiloxane block copolymer reaction product. The poly(arylene ether)-polysiloxane block copolymer reaction product includes a poly(arylene ether)-polysiloxane block copolymer and a poly(arylene ether) homopolymer. The composition is useful for forming molded articles, including photovoltaic junction boxes and connectors. The composition exhibits stiffness and a good balance of flame retardancy, impact strength, flow, and heat resistance.

IPC 8 full level  
**C08L 83/12** (2006.01); **C08G 77/46** (2006.01); **C08K 5/521** (2006.01); **C08L 25/08** (2006.01); **C08L 71/12** (2006.01)

CPC (source: EP US)  
**C08K 5/526** (2013.01 - EP US); **C08L 71/12** (2013.01 - EP US); **C08L 83/12** (2013.01 - EP US); **H01B 7/295** (2013.01 - EP US); **C08G 77/46** (2013.01 - EP US); **C08G 2261/126** (2013.01 - EP US); **C08L 15/00** (2013.01 - EP US); **C08L 2205/05** (2013.01 - EP US)

C-Set (source: EP US)  
**C08L 83/12 + C08K 5/526 + C08L 71/12**

Cited by  
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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**US 2013030096 A1 20130131**; CN 103827220 A 20140528; CN 103827220 B 20160127; EP 2736976 A2 20140604; EP 2736976 A4 20150121; EP 2736976 B1 20170726; JP 2014521768 A 20140828; JP 5746437 B2 20150708; KR 101824510 B1 20180201; KR 20140068895 A 20140609; WO 2013015945 A2 20130131; WO 2013015945 A3 20130321

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**US 201113189651 A 20110725**; CN 201280045579 A 20120629; EP 12818023 A 20120629; JP 2014522841 A 20120629; KR 20147004868 A 20120629; US 2012044897 W 20120629